

Application No.: 10/620,351

Docket No.: R2184.0097/P097-B

AMENDMENTS TO THE CLAIMS

Claims 1-9. (Canceled)

10. (Currently amended) A recording apparatus for recording information on an optical information recording medium, wherein the optical information recording medium is formatted in such a manner that, for an area for which access is made only at a time of recording operation, at least one inconsecutive portion at which an address becomes inconsecutive with respect to a physical arrangement of sectors is provided, and wherein information is recorded on the optical information recording medium as a result of light being applied thereon ~~by applying light thereon~~ from an optical pickup, said apparatus comprising:

a detection part detecting as to whether or not ~~[[an]]~~ the inconsecutive portion ~~[[of addresses]]~~ occurs in the optical information recording medium based on a signal detected via said optical pickup; and

a correction part correcting address in the inconsecutive portion in case the inconsecutive portion is detected by said detection part.

11. (Previously presented) The recording apparatus as claimed in claim 10, wherein: said correction part performs the address correction by skipping addresses for the inconsecutive portion.

12. (Previously presented) The recording apparatus as claimed in claim 10, wherein: the address correction performed by said correction part is performed in a time of trial writing processing for setting a power of light which is emitted from said optical pickup at a time of recording information.

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13. (Previously presented) The recording apparatus as claimed in claim 10, wherein: in case said detection part determines that the address inconsecutive portion occurs, said correction part performs address correction in use of address information concerning the inconsecutive portion which is previously obtained.

14. (Currently amended) A recording apparatus for recording information on an optical information recording medium, wherein the optical information recording medium is formatted in such a manner that, for an area for which access is made only at a time of recording operation, at least one inconsecutive portion at which an address becomes inconsecutive with respect to a physical arrangement of sectors is provided, and wherein information is recorded on the optical information recording medium as a result of light being applied thereon by applying light thereon from an optical pickup, said apparatus comprising:

a read signal processing part performing extraction of an address signal from a signal read via the optical pickup;

an address demodulation part performs demodulation of the address signal obtained from said read signal processing part;

a detection part detecting as to whether or not [[an]] the inconsecutive portion [[of addresses]] occurs in the optical information recording medium based on an output of said address demodulation part; and

a correction [[unit]] part correcting address in the inconsecutive portion in case the inconsecutive portion is detected by said detection part.

15. (Currently amended) A recording method recording information on an optical information recording medium, wherein the optical information recording medium is formatted in such a manner that, for an area for which access is made only at a time of recording operation, at least one inconsecutive portion at which an address

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becomes inconsecutive with respect to a physical arrangement of sectors is provided, and wherein information is recorded on the optical information recording medium as a result of light being applied thereon by applying light thereon from an optical pickup, said method comprising the steps of:

a detection step detecting as to whether or not ~~[[an]]~~ the inconsecutive portion ~~[[of addresses]]~~ occurs in the optical information recording medium based on a signal detected via said optical pickup; and

a correction step correcting address in the inconsecutive portion in case the inconsecutive portion is detected in said detection step.

16. (Previously presented) The recording method as claimed in claim 15, wherein: in said correction step, the address correction is performed by skipping addresses for the inconsecutive portion.

17. (Previously presented) The recording method as claimed in claim 15, wherein: the address correction performed in said correction step is performed in a time of trial writing processing for setting a power of light emitted by said optical pickup at a time of recording information.

18. (Previously presented) The recording method as claimed in claim 15, wherein: in case it is determined in said detection step that the address inconsecutive portion occurs, the address correction is performed in said correction step in use of address information concerning the inconsecutive portion which is previously obtained.

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19. (New) A recording apparatus for recording data on an optical information recording medium by applying light thereon from an optical pickup, comprising:

a signal processing part performing extraction of an ATIP signal from a signal read via the optical pickup and demodulation of the ATIP signal;

a detection part detecting as to whether or not an inconsecutive portion of addresses exists in the optical information recording medium; and

a correction part setting a start address on a portion ahead of the inconsecutive portion of addresses when existence of the inconsecutive portion of addresses is detected by said detection part; and

wherein said detection part detects as to whether or not an inconsecutive portion of addresses occurs in the optical information recording medium on which data will be recorded based on ATIP information concerning the inconsecutive portion of addresses and an output of the signal processing part, said ATIP information being previously recognized by the recording apparatus.

20. (New) The recording apparatus as claimed in claim 19, wherein the correction part sets $t1 - (t2' - t1')$ as said start address, wherein $t1$ is an address set as a start address for an optical information recording medium having no inconsecutive portion of addresses, and the inconsecutive portion of addresses is set between an address $t1'$ through an address $t2'$, and $t1' < t2'$.

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